

LQ mass	Signal	W+jets	$t\bar{t}$	Multijet	VV, Z, single $t$ , $\gamma$ +jets	Total background	Data
init. sel.	—	$47900 \pm 160$	$66900 \pm 110$	$2800 \pm 15$	$11300 \pm 72$	$128900 \pm 210 \pm 8800$	125076
200	$130800 \pm 1600$	$40100 \pm 150$	$52800 \pm 94$	$2100 \pm 11$	$9600 \pm 57$	$104500 \pm 190 \pm 7300$	101618
250	$44200 \pm 520$	$1800 \pm 25$	$3800 \pm 25$	$300 \pm 2.3$	$1300 \pm 38$	$7100 \pm 52 \pm 430$	7151
300	$19800 \pm 220$	$800 \pm 15$	$1400 \pm 16$	$120 \pm 1.4$	$660 \pm 37$	$3000 \pm 43 \pm 170$	3164
350	$9800 \pm 100$	$410 \pm 13$	$610 \pm 10$	$62 \pm 1.0$	$330 \pm 11$	$1400 \pm 20 \pm 88$	1539
400	$5100 \pm 51$	$230 \pm 8.9$	$300 \pm 7.2$	$37 \pm 0.8$	$200 \pm 10$	$760 \pm 15 \pm 74$	847
450	$2900 \pm 27$	$150 \pm 6.0$	$160 \pm 5.2$	$28 \pm 0.8$	$120 \pm 9.6$	$460 \pm 12 \pm 31$	496
500	$1700 \pm 15$	$90 \pm 4.1$	$88 \pm 3.9$	$21 \pm 0.8$	$75_{-3.3}^{+3.9}$	$270_{-6.6}^{+6.9} \pm 21$	298
550	$990 \pm 8.8$	$59 \pm 5.2$	$49 \pm 2.9$	$9.1 \pm 0.4$	$53_{-2.9}^{+3.5}$	$170_{-6.6}^{+6.9} \pm 13$	195
600	$620 \pm 5.3$	$45 \pm 5.1$	$32 \pm 2.3$	$6.1 \pm 0.4$	$36_{-2.2}^{+2.8}$	$120_{-6.0}^{+6.3} \pm 12$	132
650	$400 \pm 3.3$	$34 \pm 5.0$	$20 \pm 1.8$	$5.0 \pm 0.4$	$26_{-1.9}^{+2.5}$	$84_{-5.7}^{+5.9} \pm 8.1$	94
700	$270 \pm 2.1$	$22 \pm 1.2$	$12 \pm 1.5$	$4.2 \pm 0.5$	$18_{-1.5}^{+2.1}$	$56_{-2.5}^{+2.9} \pm 6.1$	71
750	$180 \pm 1.4$	$15 \pm 0.9$	$10 \pm 1.3$	$3.7 \pm 0.5$	$13_{-1.3}^{+2.1}$	$42_{-2.1}^{+2.7} \pm 4.9$	49
800	$130 \pm 0.9$	$13 \pm 1.0$	$6.3 \pm 1.0$	$3.4 \pm 0.6$	$9.8_{-1.1}^{+2.0}$	$32_{-1.9}^{+2.5} \pm 4.6$	38
850	$86 \pm 0.6$	$13 \pm 1.1$	$5.2 \pm 0.9$	$3.2 \pm 0.7$	$7.0_{-1.2}^{+2.0}$	$28_{-2.0}^{+2.6} \pm 4.8$	28
900	$61 \pm 0.4$	$11 \pm 1.2$	$3.8 \pm 0.8$	$3.0 \pm 0.7$	$6.3_{-1.1}^{+2.0}$	$24_{-2.0}^{+2.6} \pm 4.1$	21
950	$44 \pm 0.3$	$8.4 \pm 1.0$	$3.0 \pm 0.7$	$0.7 \pm 0.1$	$5.7_{-1.1}^{+2.0}$	$18_{-1.6}^{+2.3} \pm 3.3$	20
1000	$31 \pm 0.2$	$7.9 \pm 0.9$	$2.2 \pm 0.6$	$0.6 \pm 0.1$	$4.8_{-1.1}^{+2.0}$	$16_{-1.5}^{+2.3} \pm 2.8$	15
1050	$23 \pm 0.2$	$7.1 \pm 0.9$	$1.4_{-0.5}^{+0.7}$	$0.5 \pm 0.1$	$4.4_{-1.1}^{+2.0}$	$13_{-1.4}^{+2.3} \pm 2.5$	14
1100	$17 \pm 0.1$	$5.9 \pm 0.8$	$1.2_{-0.4}^{+0.6}$	$0.5 \pm 0.1$	$4.0_{-1.0}^{+2.0}$	$12_{-1.4}^{+2.3} \pm 2.1$	12
1150	$12 \pm 0.1$	$5.4 \pm 0.9$	$0.9_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.3_{-1.0}^{+2.0}$	$10_{-1.4}^{+2.3} \pm 1.7$	12
1200	$9.1 \pm 0.1$	$5.2 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.2_{-1.0}^{+2.0}$	$9.5_{-1.5}^{+2.3} \pm 1.6$	10
1250	$7.1 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1300	$5.4 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1350	$4.1 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1400	$3.1 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1450	$2.4 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1500	$1.9 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1550	$1.4 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1600	$1.1 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1650	$0.8 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1700	$0.6 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1750	$0.5 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1800	$0.4 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1850	$0.3 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1900	$0.2 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
1950	$0.2 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9
2000	$0.1 \pm 0.0$	$5.0 \pm 1.1$	$0.7_{-0.4}^{+0.6}$	$0.4 \pm 0.1$	$3.0_{-1.0}^{+2.0}$	$9.1_{-1.5}^{+2.3} \pm 1.5$	9